

Date: Sat, 1 May 93 08:35:15 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #525
To: Info-Hams

Info-Hams Digest Sat, 1 May 93 Volume 93 : Issue 525

Today's Topics:

 Amateur Radio Elmers List Info and Administrivia
 Amateur Radio Newsline #71 (4/29/93)
 Changes to Amateur Radio Elmers Resource Directory
 pro-2006 recall for new improve
 Sattelite descramblers? (was Re: Cable TV Descrambler Sources?)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sat, 1 May 1993 11:00:10 GMT
From: nevada.edu!news.unomaha.edu!news@uunet.uu.net
Subject: Amateur Radio Elmers List Info and Administrivia
To: info-hams@ucsd.edu

Posted-By: auto-faq 2.4
Archive-name: radio/ham-radio/elmerns/admin
Revision: 1.4 04/25/93 23:02:45
Changes: pit-manager.mit.edu is now rtfm.mit.edu

This administrivia file and the companion Amateur Radio Elmers Resource
Directory are intended for non-commercial distribution via Usenet. Any
other uses, please E-mail for permission.

A Brief Historical Overview:
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If there is any one constant in the changing state of the communications

art, it is that "Hams" (Amateur Radio Operators) have always been on the forefront of it. Rumors abound where the term "Ham" came from. Some of the more amusing are described at the end of this article.

Regardless of origin of the name, a "Ham" is universally recognizable as one who experiments in radio and communications.

Whether it be constructing a low-power CW radio with vacuum tubes, or designing TCP/IP packet networks, such experimentation has historically spilled over into the mainstream such as was the case with Edwin Armstrong, who developed the regenerative oscillator and FM radio, or General Curtis LeMay (W6EZV) who was instrumental in making Single-Sideband the communications standard for the Strategic Air Command (1947-1992, now reorganized into a joint command called StratComm) and eventually the U.S. Air Force. Although packet-switching techniques originated from DARPA (Defense Advanced Research Projects Agency) and the ARPANet, no one can deny the tremendous influence that amateurs have had in demonstrating the viability of TCP/IP and AX.25 communications via radio links. The efforts of AMSAT (the Amateur Satellite Corporation), including the development of many ham satellites and the low-orbiting Microsats (communications satellites no bigger than a breadbox that use store-and forward packet techniques), have certainly advanced the state-of-the-art in communications, one of the defined purposes of the Amateur Radio Service, as recognized by international treaty.

Since in many cases hams are writing "the book", there is often no "book" or other established reference for a beginner to refer to. Traditionally, information has been passed on from ham to ham via word-of-mouth. Like many of the traditional crafts, a variation of the Master-Apprentice system has emerged, the Elmer-Novice relationship. Called "Elmers" because they are usually older and wiser, having the benefit of many years in the hobby, including several failed projects, and an electric shock or two, they have traditionally been the mainstay of amateur radio, and the source of many new hams, particularly those interested in working on emerging technologies.

Even more importantly, Elmers provided an outlet for the impatient newcomer who wanted "to know everything, and right away." Faced with such a request, a good Elmer will smile and proceed to lead the novice through some project or operating experience. Several hours, days, or weeks later, the novice would have his answers, but would have earned them. Even better, the sense of accomplishment would boost the novice's confidence and nudge him or her down the road to being a model, experienced ham operator.

Many present hams feel that such an experience is missing today. In today's hustle-bustle world, the response to such natural curiosity and

desire to learn is, more often than not, "I'm too busy" or "RTFM." As a result, the quality of new hams declines and the knowledge and operating habits they develop in their first formative months and years leave much to be desired. And the very same hams who claim that they "can't understand the new generation" also, in almost the same breath, lament about the "decline of amateur radio."

What is an Elmer today?

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An Elmer today is of any age, male or female, who has some expertise and is willing to share it with beginners. Elmers don't even need to be licensed amateurs, just people with knowledge in some area of electronics or communications technology.

What is a Usenet Elmer?

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With the ever-widening scope of the Internet, and the amateur radio newsgroups on Usenet, the potential for Elmers to share their knowledge to a wide audience has never been greater. To that end, I have started to maintain a list of such Elmers. Volunteers need only send me their name, E-mail address, and area of expertise. I have set up an administrivia mailbox for this purpose (elmers-request@unomaha.edu, the default Reply-To: of this message).

Those desiring a more extensive list, or who need more specific assistance, are encouraged to contact Rosalie White, WA1STO, Educational Services Manager at the American Radio Relay League, 225 Main St., Newington, CT 06111 or via electronic mail addressed to rwhite@arrl.org.

How may I obtain the latest copy of the Elmers List?

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There are currently 4 ways of obtaining the Elmers List. Any site at least reachable by Internet E-mail can use options 3 or 4:

1. Usenet News: The latest copy of the list can be found in the companion posting to this message, "Amateur Radio Elmers Resource Directory." Since the list is cross-posted to rec.radio.amateur.misc, rec.radio.info, rec.answers, and news.answers on the 1st of each month, with an expiration date 6 weeks into the future, there should always be a copy available at most news sites. Check your newsreader documentation for information about reading previously-read articles.

2. Anonymous FTP: If your site is directly connected to the Internet, you may retrieve the latest copy via File Transfer Protocol (FTP) from

the following sites:

```
ftp.cs.buffalo.edu  /pub/ham-radio/elmers*  
rtfm.mit.edu       /pub/usenet/news.answers/radio/ham-radio/elmers/*
```

3. Mailing-List: Since the list is cross-posted to rec.radio.info, the latest copy may be obtained from the mailing-list gateway for that newsgroup (along with many other informational articles about radio) when it is published each month. To subscribe, send E-mail to:

listserv@ucsd.edu

and in the BODY (not the Subject) of the message, write:

subscribe radio-info

The server may not be able to determine your return address. In that case write:

subscribe radio-info (your E-mail address)

You should get an acknowledgement very shortly.

4. Mail-Server: If you don't want to read through the entire gateway of rec.radio.info, or want a copy of the list right away, send E-mail to:

mail-server@rtfm.mit.edu

and in the BODY (not the Subject) of the message, write:

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send usenet/news.answers/radio/ham-radio/elmers/admin  
send usenet/news.answers/radio/ham-radio/elmers/list  
send usenet/news.answers/radio/ham-radio/elmers/diff
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and the latest copy of the list should be sent to you E-mail within 24 hours (the mail-server uses batch priority to reduce system demand).

How may I contribute to the Elmers List?

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By using this resource, you are benefitting the net by obtaining assistance in the fastest and most efficient way possible. By volunteering to appear on this list, you are contributing to the good reputation of the radio-related newsgroups.

Thanks to all the volunteer Elmers, as well as courteous list users, for making this service a success.

--

73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu (personal mail)

elmers-request@unomaha.edu (Elmers List administrivia)

* Possible origins of the word HAM:

The acronym "Home Amateur Mechanic" or...

from the Cockney pronunciation of "L'amateur" or...

the initials of the founder of the American Radio Relay League, Hiram Maxim, W1AW (his actual middle name being Percy apparently notwithstanding) or...

from the call letters of one of the first amateur stations at Harvard, H.A.M. (please, no flames from W1XM at MIT)

Dale Mosby, N7PEX, offers the explanation that HAM must stand for "Hardly Any Money," considering the investment one could make in the hobby.

Knowledgeable individuals from the American Radio Relay League (ARRL), and other radio historians, seem to agree that the terms "Ham" and "Lid" (an inept operator) both originated with landline telegraphy. A "Ham" was a show-off and a "Lid" was a telegraph operator so inexperienced, he had to use a pot or can lid to rest his telegraph sounder on to properly copy the code.

As an interesting historical footnote, early telegraph operators may have been the first to experience the infamous curse of our communications age, Repetitive Stress (or "Carpal Tunnel") Syndrome (called "Glass Arm" in those days, which encouraged the invention of the semi-automatic or "bug" key).

(Larry E. McDonald, N6ZMB, wrote to point out another plausible origin, which doesn't necessarily contradict the ARRL version. The term "ham" may have been derived from "ham-fisted" or "ham-handed" to describe poor telegraph operators who were hired from the ranks of radio operators. Or maybe "ham-fisted" and "ham-handed" are derived from "ham." Who knows?)

Date: Sat, 1 May 1993 14:37:24 GMT

From: usc!howland.reston.ans.net!gatech!usenet.ufl.edu!tulane!ukma!ncc.uky.edu!
acourt@network.UCSD.EDU

Subject: Amateur Radio Newsline #71 (4/29/93)
To: info-hams@ucsd.edu

NEWSLINE RADIO - CBBS EDITION #71 - POSTED 04/29/93

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The following is late news about Amateur Radio for Radio Amateurs as prepared from NEWSLINE RADIO scripts by the staff of the AMATEUR RADIO NEWSLINE, INC. -- formerly the WESTLINK RADIO NETWORK. The electronic version of newslines is posted on this CBBS twice monthly. For current information updates, please call (213) 462-0008, (805) 296-2407, (407) 259-4479, (708) 289-0423, (513) 275-9991, (718) 353-2801, (407) 965-1234 or (206) 368-3969. To provide stories and information please call (805) 296-7180. This line answers automatically and will accept up to 30 minutes of material.

Check with your local amateur radio club to see if NEWSLINE can be heard weekly on the air in your area.

Articles may be reproduced if printed in their entirety and credit is given to AMATEUR RADIO NEWSLINE as being the source.

For further information about the AMATEUR RADIO NEWSLINE, please write to us with an SASE at P.O. Box 463, Pasadena, CA 91102.

Thank You
NEWSLINE

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Some of the hams of NEWSLINE RADIO...

WA6ITF WB6MQV WB6FDF K6DUE W6RCL N6AHU N6AWE N6TCQ K6PGX N6PNY
KU8R N8DTN W9JUV KC9RP K9XI KB5KCH KC5UD KC0HF G8AUU DJ0QN and
many others in the United States and around the globe!!!

[819]

Electronic Filings

The FCC has changed its rules to allow for the eventual electronic filing of license applications in the various private radio services. Currently all license applications must include a handwritten signature. But last October Congress amended the Communications Act to allow electronic filing of applications, applications signed in any manner or form including by electronic means.

The Commission says that any changes to come will only be after it has established procedures for electronic filing. For now amateurs, and all others applicants are still bound by the handwritten signature requirement and will be for some time to come.

SAREX SUCCESS

STS-56, the Discovery, has written itself into history as a record breaking success. The five-ham crew headed by their Commander Ken Cameron KB5AWP racked up a number of firsts during the mission. They talked to students at eighteen schools worldwide -- one more than the previous record set on STS-45. Good clear contacts were reported as young students asked questions about life in orbit. Thirteen of those schools were in the United States, two were in Great Britain, one in Australia, another in Portugal and one was in South America.

This trip on the space shuttle Discovery also broke new ground in the world of Amateur Radio when Mike Foale, KB5UAC talked to Cosmonaut Alexander Bolishuk (SIC??) R2MIR aboard the Russian MIR space station as the two spaceships passed within 135 kilometers of one another on a Saturday evening. That was the first two-way contact between orbiting craft.

Yet another first was a Fast-Scan ATV transmission that was climaxed when the Johnson Space Center Amateur radio Club W5RRR sent live pictures to Discovery from the Mission Control Room. Cap-Com was a little surprised when Ken Cameron on board the orbiter asked him to wave. From Cap-Com came the reply: "Next time, you will have to ask for permission to come aboard." Before signing off, Cameron told Mission Control to: "Look sharp."

You never know when Discovery might be watching you."

Slow-Scan television, packet radio, and a few general contacts rounded out the schedule for the all-ham crew of STS-56 consisting of Ken Cameron KB5AWP, Mike Foale KB5UAC, Ken Cockrell KB5UAH, Steve Oswald KB5YSR and Ellen Ochoa KB5TZZ.

Those who copied SAREX transmissions from STS-56, or who were lucky enough to establish two-way radio contact with the Space Shuttle, should direct their QSL requests to: STS-56 QSL C/O Vienna Wireless Society P.O. Box 418 Vienna, VA 22183

Include a self addressed stamped envelope. Non-US stations should include the appropriate number of IRCs with your QSL or a \$0.50 U.S. stamp on the envelope. The Report should include callsign, whether worked/heard, date, UTC time, mode, frequency, and QSO number for packet connects.

VEC CONFERENCE LIMBO

The annual meeting of Volunteer Examiner Coordinators appears to be in a state limbo. This is because of the FCC is short some 6 to 10 days worth of funding to keep its employees at work. As a result, the agency now plans to furlough its staff one day per pay period, and it now appears that the date of the VEC Conference could be one of those days.

The Conference Chairman is Don Tunstill, WB4HOK. He has sent all VEC's a letter indicating that the Conference for June 18th has a few problems. Tunstill wrote in part -- and we quote -- "As of last Thursday, all branches of the FCC have been notified that the following unpaid furlough days will be taken by all employees. These are May 28, June 4, June 18, July 2, July 16, July 30, Aug. 13 and Aug. 27" -- end quote.

While Tunstill works toward setting a new meeting date with the FCC, another VEC, Gordon Girton, W6NLG of the Sunnyvale VEC says that the group definitely wants your input regarding future testing matters. This is especially true in regard to the new element 3 B. If you want to send your comments to the Question pool manager send them to the Western Carolina Amateur Radio Club VEC, 5833 Clinton Highway, Suite 203, Knoxville, Tennessee 37912-2545.

Our thanks to Gordon Girton, W6NLG for passing this information to us.

IS IT AN INVESTIGATION

The FCC is now admitting that there is an investigation of possible testing irregularities going on in upstate New York, but a Commission spokesman says that its is limited to only one

individual at this time. In a telephone conversation with Westlink Report publisher Burt Hicks, WB6MQV, the FCC's Thomas Fitz-Gibbon admitted that the agency is now officially looking into an admission of a particular applicant. According to Fitz-Gibbon, this particular person is alleged to have admitted being away on vacation at the time the test in question was given. Previously the FCC had said that no investigation was contemplated and none was taking place.

More power denied

The Commission has denied a request for a waiver of the amateur 1,500 watt power output limitation. Dale Gagnon, KW1I, of Bowe, NH, had asked for the waiver earlier, as well as a reconsideration of the FCC's original denial. The FCC said that Gagnon's latest request for a waiver has not shown that his circumstances are unique nor has he presented any facts that would warrant a waiver. Gagnon wanted the waiver to legally operate on AM at a PEP power more than 1,500 watts output. Its unknown if Gagnon will file an appeal.

HAM KILLS HAM

A sad story out of southern California. Word that a newlywed ham has been arrested in the shooting death of his wife. Tyrone Casey Hyia, N7ZMM has been booked into Orange County California jail on suspicion of murdering his thirty-three year old wife Michelle, N6ZUM.

News reports say that the shooting appeared to be the result of a domestic dispute. According to Detective Terry Sirks, Tyrone Hyia called police from a Howard Johnsons motel room claiming that his wife had just shot herself. When police arrived, the police found Michelle dead from a single gunshot wound to the head.

Detective Sirks did not say what evidence lead them to the conclusion that N6ZUM was a murder victim, but N7ZNM was taken into custody at the scene.

DXCC DELETIONS

In DX, the ARRL Awards Committee has voted unanimously to accept a recommendation of its DX Advisory Committee to add the former Yugoslav republic of Macedonia for country credit. This, for contacts made September 8th 1991. This change is based the criteria of a change in Government. At the same time the

committee also voted unanimously to delete Czechoslovakia effective 1 January 1993. Contacts made December 31, 1992 and before still count for this now deleted country.

Replacing Czechoslovakia are the Czech Republic and the Slovak Republic. The DXCC Desk will accept QSL cards for these three new countries starting June 1st, 1993. QSL cards received at the DXCC Desk before that date will be returned without action.

YHOTY

A reminder from the Westlink Report newsletter. It says that its 1993 Young Ham of the Year Award will be presented at the Huntsville Hamfest and ARRL National Convention in Huntsville, Alabama the weekend of August 14th and 15th.

The Westlink Report Young Ham of the Year is a person who in the view of the judges best epitomizes the accomplishments of youth in amateur radio. Achievements can be in any area of endeavour associated to the hobby service. To qualify, a nominee must be 18 years of age or younger, be attending an accredited school or place of learning and must hold any class of valid United States amateur license. Cutoff date for nominations is June 30th. For a nominating form please send an S.A.S.E. to the 1993 Westlink Report Young Ham of the Year, 28197 Robin Avenue, Saugus, CA 91350.

UK SCANNER STING

From the other side of the Atlantic comes word of a rather unique sting against scanner radio enthusiasts. Police in Warrington, England fed up with people listening to their 2-way communications decided to broadcast a message about a crashed flying saucer. They gave details were to find it and also warned that the object was radio-active and shouldn't be approached.

In almost no time at all, five eavesdroppers which arrived. All were expecting to see little men from outer space. Instead they saw big men in uniforms who told them that they were under arrest. Sources in the United Kingdom say that they will all be prosecuted for telecommunication offenses.

While scanners radios are widely available in the England, it is against the law to act on messages received, or pass them on to other people.

* * * Newsline Copyright 1993 all rights are reserved. * * *

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 Allan Courtney acourt@ncc.uky.edu
I love my country! It's the government that scares the hell out of me...

Date: Sat, 1 May 1993 11:00:45 GMT
From: nevada.edu!news.unomaha.edu!news@uunet.uu.net
Subject: Changes to Amateur Radio Elmers Resource Directory
To: info-hams@ucsd.edu

Posted-By: auto-faq 2.4
Archive-name: radio/ham-radio/elmerns/diff

(Note: This diff file is taken from the list body only.)

/usr/bin/diff -c (last month's) (this month's)

*** /u3/pschleck/faq/elmerns/list.body.old Thu Apr 1 06:00:57 1993
--- /u3/pschleck/faq/elmerns/list.body.new Sat May 1 06:00:04 1993

*** 1,9 ****
! Amateur Radio Elmers Resource Directory (as of 04/01/93)
+++++

Jeff Angus WA6FWI

! jangus@skyld.sr.com

I run NOS as a tcp/ip <--> AX.25 mail bbs gateway. I also run a few nodes,
soon to replace with Tnet-x1g on one and a PC NOS-switch on the other.

--- 1,9 ----
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Jeff Angus WA6FWI

! jangus@skyld.tele.com

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*** 16,24 ****
"We're here to help, we don't loan tools" (Just kidding....put me on the
list). Monday-Thursday 8 AM to 9 PM Pacific time, Friday 8 am to 5 pm.

! --

! xenon!skyld!jangus < This space left blank intentionally. >

! PO Box 4425, Carson CA 90749-4425 voice (310) 324-6080

+++++

--- 16,24 ----

"We're here to help, we don't loan tools" (Just kidding....put me on the list). Monday-Thursday 8 AM to 9 PM Pacific time, Friday 8 am to 5 pm.

! --

! netcom!bongo!jangus@skyld.tele.com "Als ik Kan", Gustav Stickley

! US Mail: PO Box 4425 Carson, CA 90749-4425 1 (310) 324-6080

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*** 310,315 ****

--- 310,345 ----

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+ Roy Engehausen AA4RE

+

+ enge@almaden.ibm.com

+

+ AA4RE Packet BBS

+

+ Poster of RACES Bulletins

+

+ Thanks to Chris Spell <spell@seq.uncwil.edu>, there is now a mailing

+ list for AA4RE BBS program sysops. I hope all will subscribe. It

+ should be very helpful to all of us.

+

+ To send a message to the mailing list send it to:

+

+ aa4re@matsci2.uncwil.edu

+

+ To subscribe to the mailing list a user needs to send a message to:

+

+ aa4re-request@matsci2.uncwil.edu

+

+ With the following in the body of the message:

+

+ subscribe aa4re your_account_name@your.address.whereever

+

+ To unsubscribe one would send this text in the message:

+

+ unsubscribe aa4re your_account_name@your.address.whereever

+

+ ++++++
+

Reciprocal Licensing (South Pacific)
VHF (Propagation, Power Amplifiers)
Satellites (Project Oscar)

*** 571,577 ***

My particular interest is in antennas and transmission lines, but I'm also more than willing to answer whatever I can in general radio theory, ! propogation, analog and digital electronics, etc.. (I'm a display engineer in "real life", have done my share of digital design, and have taught communication electronics at the local community college. I'm also active in some display and television standards activities.)

--- 601,607 ---

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*** 603,608 ***

--- 633,651 ---

+++++

+ Lyndon Nerenberg VE6TCP/VE6BBM

+

+ lyndon@unbc.edu

+

+ To subscribe to the DX mailing list, send an E-mail request to:

+

+ dx-REQUEST@unbc.edu

+

+ asking to be added. A short introductory message will promptly follow.

+

+ ++++++

+

| _ _ _ _ _ |
| | / / |

Dr. Barry L. Ornitz
Eastman Kodak Company

WA4VZQ

*** 779,789 ***

pschleck@unomaha.edu

- ARRL Technical Specialist (TS), Nebraska Section

-

Internet Services (Finding FAQ's, using Usenet, FTP, telnet,
Archie, FTP mail-servers, mailing lists, etc., etc.)

College Clubs

Ham-Univ mailing list for college clubs has found a new home at the
--- 822,834 ----

pschleck@unomaha.edu

Internet Services (Finding FAQ's, using Usenet, FTP, telnet,
Archie, FTP mail-servers, mailing lists, etc., etc.)

+ Also willing to provide newsreader kill/select file help to anyone
+ interested in customizing their presentation of the rec.radio.*
+ newsgroups

+

College Clubs

Ham-Univ mailing list for college clubs has found a new home at the

*** 958,963 ***

--- 1003,1023 ----

area of older HF gear, especially QRP operation with Ten Tec Argonauts
(and Power Mites, etc.). Also have experience with other 10-20 year-old
economy HF rigs, particularly the Kenwood TS-520.

+

+ ++++++

+

+ --Bruce Walker WT1M (bruce@think.com)

+ Chuck Adams K5FO (adams@chuck.dallas.sgi.com)

+

+ The QRP Internet mailing list is open to all topics relating to low-power
+ amateur radio operation. Example topics: portable operation, equipment
+ design and construction, solar and battery power, QRPP, contesting,

+

+ The mailing list address is QRP@Think.COM; mail to that address will be
+ sent to everyone on the list without human intervention. There is also an
+ administrative address QRP-Request@Think.COM which will be monitored by the
+ list maintainer(s); please use that for such requests as adding or removing
+ yourself from the list, questions about the FTP access, etc.

+++++

--

73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu (personal mail)

elmers-request@unomaha.edu (Elmers List administrivia)

Date: 30 Apr 93 08:50 CDT

From: usc!cs.utexas.edu!news.uta.edu!utacfd.uta.edu!trsvax!trsvax!

rpo@network.UCSD.EDU

Subject: pro-2006 recall for new improve

To: info-hams@ucsd.edu

Lest anyone be misled by the title to this note, the PRO-2006 is NOT being recalled. All units (both non-A and A-versions) are modifiable. There are no immediate plans to change the PRO-2006's coverage or potential coverage.

Paul Opitz

Radio Shack Publications

Date: Fri, 30 Apr 93 21:04:34 PDT

From: swrinde!zaphod.mps.ohio-state.edu!sol.ctr.columbia.edu!destroyer!cs.ubc.ca!mala.bc.ca!oneb!ham!emd@network.UCSD.EDU

Subject: Sattelite descramblers? (was Re: Cable TV Descrambler Sources?)

To: info-hams@ucsd.edu

uri@watson.ibm.com (Uri Blumenthal) writes:

>

> Could somebody please explain to a poor ignoramus, what's the
> difference between scrambling of cable signals, and sattelite
> TV signals? Is Sattelite TV Descrabling equipment different
> from their cable TV "brother"?

>

> And what are the sources for it?

> --

> Regards,

> Uri. uri@watson.ibm.com scifi!angmar!uri

> -----

> <Disclaimer>

Satellite TV Video modulation is FM, not AM. The audio on scrambled satellite systems is usually digitized as well, and not available in the

usual 6.8 MHz audio sub carrier. Satellite TV Descrambling equipment is completely different from that used by Cable systems for subscribers.

To find out more, check the FAQ in rec.video.satellite.

73, Bob.

Robert Smits
VE7EMD
Ladysmith B.C.
e-mail: emd@ham.almanac.bc.ca

There is *no* idiotproof filter.
Idiots are proof against anything!
- Richard Chycoski, VE7CVS

End of Info-Hams Digest V93 #525
